9-20-02 TL

an interface coupling the network to the bus, the interface and host coordinating to tunnel bus events over the network between the host and the bus device by encapsulating bus events into network protocols, transferring the encapsulated bus events over the network, and subsequently decapsulating the bus events to recreate the bus events,

wherein the host runs an application that generates packets for the bus device and relies on an operating system that includes a driver for the bus device that issues the bus device packets and redirects the bus device packets to a network stack that encapsulates the bus device packets to create a network packet and sends the network packet to a remote bus device via the interface, the interface thereafter decapsulating the network packet to obtain the bus device packet and forwarding the bus device packet to the bus device.

3. (Twice Amended) The system defined in Claim 2 wherein the interface generates network packets that encapsulate the bus events in a network protocol portion.

6. (Twice Amended) The system defined in Claim 2 wherein each tunneled request includes a tunneling header and a tunneling data portion, wherein the tunneling data portion is specific to each tunneling packet type and tunneling transaction type, and the tunneling header is common among tunneling packet types.

Please cancel claim 11 without prejudice.

12. (Twice Amended) A system comprising:

a network having a host coupled thereto, the host executing software to generate packets for communication on the network;

a bus with a bus device coupled thereto, wherein the bus device generates isochronous data and the network operates asynchronously, such that isochronous data is transported over an asynchronous network;

an interface coupling the network to the bus, the interface and host coordinating to tunnel bus events over the network between the host and the bus device by encapsulating bus events into network protocols, transferring the encapsulated bus events over the network, and subsequently decapsulating the bus events to recreate the bus events, wherein the bus device generates bus device packets for transport to the host and sends the bus device packets on the bus, the interface encapsulating the bus device packets into a network packet and forwards the network packet to the host, the host executing a network driver that decapsulates the network packet, identifies bus device packets therein and redirects the bus device packets to a bus device driver running thereon.

13. (Twice Amended) The system defined in Claim 2 wherein the interface comprises a remote peripheral server.

14. (Twice Amended) The system defined in Claim 2 wherein the network comprises an Internet Protocol (IP) Ethernet network.

15. (Twice Amended) The system defined in Claim 2 wherein the bus comprises a serial bus.

16. (Twice Amended) The system defined in claim 2 wherein the bus comprises a parallel bus.

17. (Twice Amended) The system defined in Claim 2 wherein the bus adheres to the IEEE-1394 bus standard.

18. (Twice Amended) The system defined in Claim 2 wherein the bus adheres to the Universal Serial Bus Standard (USB).

Please cancel claim 19 without prejudice.

Please cancel claim 20 without prejudice.

Please cancel claim 21 without prejudice.

REMARKS

Applicants respectfully request reconsideration of the present U.S. Patent application as amended herein. Claims 2, 3, 6 and 12-18 have been amended. Claims 11 and 19-21 have been canceled. No claims have been added. Thus, claims 2-10, 12-18, 23-27, 29-32, 34-36 and 38-55 are pending.